

Automotive Gasoline Fuels: Specification Requirements

BUREAU OF WEIGHTS & MEASURES

PO Box 8911 Madison, WI 53708 608-224-4942 datcp.wi.gov

RESOURCES

More information on applicable Wisconsin laws can be found at these links:

Wis. Admin. Code ATCP 94 docs.legis.wisconsin.gov/code /admin_code/atcp/090/94

Wis. Stat. 168

docs.legis.wisconsin.gov/ statutes/statutes/168

E10 Variance

http://datcp.wi.gov/uploads/Consumer/pdf/E10RVPVariance.pdf

Fuel Quality Lab Website
http://datcp.wi.gov/Consumer/
Weights_and_Measures/Fuel
_Quality_Lab/index.aspx

Wisconsin requires all automotive gasoline, including E10, to meet the specifications of ASTM D4814-14. ASTM D4814 covers the establishment of requirements of automotive fuels for ground vehicles equipped with spark-ignition engines. Wisconsin Administrative Code ATCP § 94.210(c) states: Automotive gasoline. ... any fuel product designated by name or reference as automotive gasoline shall meet the requirements of ASTM D4814.

Wisconsin Statute § 168.04, under which Wisconsin Administrative Code ATCP 94 is promulgated, requires administrative rules to be in conformity with nationally recognized standards, specifications and classifications.

DATCP routinely samples and tests automotive gasoline at terminals, bulk plants, and retail stations to ensure that automotive gasoline sold in Wisconsin meets the requirements of ASTM D4814-14. For more information on testing in Wisconsin, please visit our <u>Fuel Quality Laboratory website</u>.

Wisconsin has issued a variance for the Reid Vapor Pressure (RVP) requirements for E10 gasoline during certain months. The variance incorporates the following standards adopted by the National Conference on Weights and Measures and published in NIST Handbook 130:

E10 shall meet ASTM D4814-14, "Standard Specification for Automotive Spark-Ignition Engine Fuel," with the following permissible exceptions:

- The maximum vapor pressure shall not exceed the ASTM D4814 limits by more than:
 - 1.0 psi for blends containing 9 to 10 volume percent ethanol from June 1 through September 15. This is inclusive of, but not in addition to, the EPA allowance of 1.0 psi during this same period.
 - 1.0 psi for blends containing one or more volume percent ethanol for volatility classes A, B, C, D from September 16 through May 31.
 - 0.5 psi for blends containing one or more volume percent ethanol for volatility Class E from September 16 through May 31.

The vapor pressure exceptions will remain in effect until ASTM either incorporates changes to the vapor pressure maximums for E10, or determines there will be no changes.

Non-automotive gasoline, such as marine gasoline, can use <u>Table 94.210</u> in Wis. Admin. Code ATCP 94. This table rarely applies. Wis. Admin. Code <u>ATCP § 94.210(b)</u> states: "Gasoline. Any fuel product designated by name or reference as gasoline shall meet the requirements of Table 94.210".